

INTERNATIONAL SEARCH REPORT

 International Application No
 PCT/EP2004/053098

 A. CLASSIFICATION OF SUBJECT MATTER
 IPC 7 G11B7/13 H01L31/0203

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

 Minimum documentation searched (classification system followed by classification symbols)
 IPC 7 G11B H01L

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 5 811 799 A (WU ET AL) 22 September 1998 (1998-09-22)	1
Y	column 1, line 50 - column 2, line 12 column 2, line 66 - column 4, line 11 figures 1-10b claims 1-10	2-6
Y	US 6 522 618 B1 (FELDMAN MICHAEL R ET AL) 18 February 2003 (2003-02-18)	2-6
A	column 6, line 26 - column 7, line 23 figure 3a	1
X	US 5 865 935 A (OZIMEK EDWARD J ET AL) 2 February 1999 (1999-02-02) the whole document	1
	----- -/--	

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

* Special categories of cited documents :

- *A* document defining the general state of the art which is not considered to be of particular relevance
- *E* earlier document but published on or after the international filing date
- *L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- *O* document referring to an oral disclosure, use, exhibition or other means
- *P* document published prior to the international filing date but later than the priority date claimed

- *T* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- *X* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- *Y* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- *G* document member of the same patent family

Date of the actual completion of the international search

20 April 2005

Date of mailing of the international search report

28/04/2005

Name and mailing address of the ISA

 European Patent Office, P.B. 5818 Patentlaan 2
 NL - 2280 HV Rijswijk
 Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,
 Fax: (+31-70) 340-3016

Authorized officer

Pacholec, D

INTERNATIONAL SEARCH REPORT

International Application No
PCT/EP2004/053098

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT		
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 5 098 630 A (OGIU ET AL) 24 March 1992 (1992-03-24) column 2, line 61 - column 3, line 43 figures 1-16 -----	1
A	EP 0 483 830 A (KABUSHIKI KAISHA TOSHIBA; TOSHIBA INTELLIGENT TECHNOLOGY LTD) 6 May 1992 (1992-05-06) column 1, line 12 - line 28 column 3, line 7 - column 4, line 20 figures 1-11 -----	1-3,6

INTERNATIONAL SEARCH REPORT

International Application No

PCT/EP2004/053098

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
US 5811799	A	22-09-1998	NONE	
US 6522618	B1	18-02-2003	US 6104690 A	15-08-2000
			US 5912872 A	15-06-1999
			US 5771218 A	23-06-1998
			US 5886971 A	23-03-1999
			AT 237179 T	15-04-2003
			AU 2480399 A	23-08-1999
			CA 2319420 A1	12-08-1999
			DE 69906704 D1	15-05-2003
			DE 69906704 T2	04-03-2004
			EP 1324324 A2	02-07-2003
			EP 1053545 A1	22-11-2000
			JP 2002503011 T	29-01-2002
			WO 9940578 A1	12-08-1999
			AT 203620 T	15-08-2001
			AU 4738497 A	17-04-1998
			DE 69705848 D1	30-08-2001
			DE 69705848 T2	04-04-2002
			EP 0928481 A2	14-07-1999
			JP 2001501351 T	30-01-2001
			WO 9813825 A2	02-04-1998
			US 6235141 B1	22-05-2001
			US 2003010431 A1	16-01-2003
			US 6406583 B1	18-06-2002
			US 2001032702 A1	25-10-2001
			US 6096155 A	01-08-2000
			US 5872762 A	16-02-1999
US 5865935	A	02-02-1999	NONE	
US 5098630	A	24-03-1992	JP 62016683 A	24-01-1987
			JP 1885462 C	22-11-1994
			JP 5067157 B	24-09-1993
			JP 63313798 A	21-12-1988
			AT 60959 T	15-03-1991
			DE 3677559 D1	28-03-1991
			EP 0216935 A1	08-04-1987
			WO 8605324 A1	12-09-1986
			AT 69236 T	15-11-1991
			AT 107363 T	15-07-1994
			DE 3850260 D1	21-07-1994
			DE 3850260 T2	22-09-1994
			DE 3866047 D1	12-12-1991
			EP 0301102 A1	01-02-1989
			EP 0391503 A2	10-10-1990
			WO 8805782 A1	11-08-1988
			US 5028722 A	02-07-1991
			US 5164302 A	17-11-1992
EP 0483830	A	06-05-1992	JP 4167232 A	15-06-1992
			DE 69120631 D1	08-08-1996
			DE 69120631 T2	06-03-1997
			EP 0483830 A1	06-05-1992
			US 5345432 A	06-09-1994